

S/N unknown

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	BRAY et al.	Examiner:	unknown
Serial No.:	unknown	Group Art Unit:	unknown
Filed:	26 February 2002	Docket No.:	10927.5USC2
Title:	<u>DYNAMICALLY CONTROLLED CRYSTAL GROWTH SYSTEM</u>		

jc979 U.S. PRO  
10/085479



CERTIFICATE UNDER 37 CFR 1.10

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I hereby certify that this paper or fee is being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

By:

  
Chris Stordahl

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted within three months of the filing date of the above-identified application, which is not an application under 37 C.F.R. § 1.53(d). Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. § 1.98(d), a copy of each document or other information listed on the enclosed Form 1449 is not provided because it was previously cited by or submitted to the U.S. Patent and Trademark Office in parent application, U.S. Serial No. 09/131,729 filed on 10 August 1998.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.


Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

Respectfully submitted,

MERCHANT & GOULD P.C.  
P.O. Box 2903  
Minneapolis, Minnesota 55402-0903  
(612) 332-5300

Dated: 26 February 2002

By   
\_\_\_\_\_  
Douglas P. Mueller  
Reg. No. 30,300

DPM:hjh



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10/085479

02/26/02

<b>FORM 1449*</b> <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)	Docket Number: 10927.5USC2	Application Number: unknown
	Applicant: BRAY	
	Filing Date: 26 February 2002	Group Art Unit: unknown

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	5,013,531	May 7, 1991	Snyder et al.				
	4,919,899	Apr. 24, 1990	Herrmann et al.				
	4,517,048	May 14, 1985	Schlichta				
	4,755,363	July 5, 1988	Fujita et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	63,201,098	Aug. 19, 1988	Japan				
	06,116,098	Apr. 26, 1994	Japan				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	1982	Alexander McPherson; "Preparation and Analysis of Protein Crystals"; 1982; Robert E. Krieger Publishing Co., Inc.; pp. 96-97.					
	1991	H. Wilson Smith, et al.; "A method for programmable control of reservoir concentrations for protein crystal growth"; <i>Journal of Crystal Growth</i> ; 1991; pp. 137-141.					
	1992	L.J. Wilson, et al.; "Control of solvent evaporation in hen egg white lysozyme crystallization"; <i>Journal of Crystal Growth</i> ; 1991; pp. 414-420.					
	1970	E.N. Baker et al.; "X-ray Diffraction Data on Some Crystalline Varieties of Insulin"; <i>J. Mol. Biol.</i> ; 1970; pp. 605-609.					
	1968	D.M. Shotton et al.; "Crystalline Porcine Pancreatic Elastase"; <i>J. Mol. Biol.</i> ; 1968; pp. 155-156.					
	1970	Albert W. Hanson, et al.; "X-ray Studies on Single Crystals of Escherichia Coli Alkaline Phosphatase"; <i>J. Biol. Chem.</i> ; October 10, 1970; Vol. 245, pp. 4975-4976.					
	1972	Alexander McPherson, et al.; "X-ray crystallographic analysis of swine pancreas $\alpha$ -amylase"; <i>Biochimica et Biophysica Acta</i> ; 1972; pp.493-497.					
	1991	Elizabeth Cacioppo, et al.; "Protein solubilities determined by a rapid technique and modification of that technique to a micro-method"; <i>Journal of Crystal Growth</i> ; 1991; pp.66-71.					
	1993	Jean-Luc Eisele; "Preparation of Protein Crystallization Buffers with a Computer-Controlled Motorized Pipette"; <i>J. Appl. Cryst.</i> ; 1993; pp.92-96.					
	1988	M. Jane Cox, et al.; "An Investigation of Protein Crystallization Parameters Using Successive Automated Grid Searches (SAGS)"; <i>Journal of Crystal Growth</i> ; 1988; pp.318-324.					
	1990	Naomi E. Chayen; "An Automated System for Micro-Batch Protein Crystallization and Screening"; <i>J. Appl. Cryst.</i> ; 1990; pp. 297-302.					
	1991	L.J. Wilson, et al.; "Crystallization of proteins by dynamic control of evaporation"; <i>Journal of Crystal Growth</i> ; 1991; pp. 142-147.					
	1992	G.A. Casay, et al.; "Laser scattering in a hanging drop vapor diffusion apparatus for protein crystal growth in a microgravity environment"; <i>Journal of Crystal Growth</i> ; 1991; pp. 95-101.					

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.	

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	1988	William W. Fowles, et al.; "Experimental and Theoretical Analysis of the Rate of Solvent Equilibration in the Hanging Drop Method of Protein Crystal Growth"; <i>Journal of Crystal Growth</i> ; 1988; pp. 117-129.
	1966	Marjorie M. Harding, et al.; "The Crystal Structure of Insulin"; <i>J. Mol. Biol.</i> ; 1966; pp. 212-226.

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